

Please type a plus sign (+) inside this box



PTO/SB/08A (10-86)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 Of 4

Complete if Known

Application Number	10/799,090
Filing Date	03/12/2004
First Named Inventor	John M. BELCEA
Group Art Unit	2681
Examiner Name	Not Assigned
Attorney Docket Number	P2112US / 0015

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
K.A.		6,405,049		Herrod et al.	06/11/02	
		6,366,568		Bolgiano et al.	04/02/02	
		6,359,872		Mahany et al.	03/19/02	
		6,349,210		Li	02/19/02	
		6,349,091		Li	02/19/02	
		6,327,300		Souissi et al	12/04/01	
		6,304,556		Haas	10/16/01	
		6,285,892		Hulyalkar	09/04/01	
		6,275,707		Reed et al.	08/14/01	
		6,249,516		Brownrigg et al	06/19/01	
		6,246,875		Seaholtz et al.	06/12/01	
		6,240,294		Hamilton et al.	05/29/01	
		6,223,240		Odenwald et al.	04/24/01	
		6,222,504		Oby	04/24/01	
		6,222,463		Rai	04/24/01	
		6,208,870		Lorello et al.	03/27/01	
		6,192,230		Van Bokhorst et al.	02/20/01	
		6,192,053		Angelico et al.	02/20/01	
		6,178,337		Spartz et al.	01/23/01	
		6,163,699		Naor et al.	12/19/00	
		6,147,975		Bowman-Amuah	11/14/00	
		6,132,306		Trompower	10/17/00	
		6,130,881		Stiller et al.	10/10/00	
		6,122,690		Nannetti et al.	09/19/00	
		6,115,580		Chuprun et al.	09/05/00	
		6,108,738		Chambers et al.	08/22/00	
		6,104,712		Robert et al.	08/15/00	
		6,078,566		Kikinis	06/20/00	
		6,067,297		Beach	05/23/00	
		6,067,291		Kammerman et al	05/23/00	
		6,064,626		Stevens	05/16/00	
		6,052,752		Kwon	04/18/00	
		6,052,594		Chuang et al.	04/18/00	
		6,047,330		Stracke Jr.	04/04/00	
		6,044,062		Brownrigg et al.	03/28/00	
		6,034,542		Ridgeway	03/07/00	
		6,029,217		Arimilli et al.	02/22/00	
		6,028,853		Haartsen	02/22/00	
		5,991,279		Haugli et al.	12/23/99	
		5,987,033		Boer et al.	11/16/99	
		5,987,011		Toh	11/16/99	
		5,943,322		Mayer et al.	08/24/99	
		5,936,953		Simmons	08/10/99	
		5,909,651		Chander et al.	06/01/99	
		5,903,559		Acharya et al.	05/11/99	
		5,896,561		Schrader et al.	04/20/99	
		5,886,992		Raatikainen et al.	03/23/99	

Attorney Docket No. P2112US/0015
 Serial No. 10/799,090
 Applicant: John M. BELCEA
 Filing Date: 03/12/2004
 Group: 2681
 Sheet 2 of 4

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
K.P.		5,881,372		Kruys	03/09/99	
		5,881,095		Cadd	03/09/99	
		5,877,724		Davis	03/03/99	
		5,870,350		Bertin et al.	02/09/99	
		5,857,084		Klein	01/05/99	
		5,845,097		Kang et al.	12/01/98	
		5,844,905		McKay et al.	12/01/98	
		5,822,309		Ayanoglu et al.	10/13/98	
		5,809,518		Lee	09/15/98	
		5,805,977		Hill et al.	09/08/98	
		5,805,842		Nagaraj et al.	09/08/98	
		5,805,593		Busche	09/08/98	
		5,796,741		Saito et al.	08/18/98	
		5,796,732		Mazzola et al	08/18/98	
		5,794,154		Bar-On et al.	08/11/98	
		5,787,080		Hulyalkar et al.	07/28/98	
		5,781,540		Malcolm et al.	07/14/98	
		5,774,876		Wooley et al.	06/30/98	
		5,745,483		Nakagawa et al.	04/28/98	
		5,717,689		Ayanoglu	02/10/98	
		5,706,428		Boer at al.	01/06/98	
		5,701,294		Ward et al.	12/23/97	
		5,696,903		Mahany	12/09/97	
		5,687,194		Paneth et al.	11/11/97	
		5,684,794		Lopez et al.	11/04/97	
		5,680,392		Semaan	10/21/97	
		5,652,751		Sharony	07/29/97	
		5,644,576		Bauchot et al.	07/01/97	
		5,631,897		Pacheco et al.	05/20/97	
		5,627,976		McFarland et al.	05/06/97	
		5,623,495		Eng et al.	04/22/97	
		5,621,732		Osawa	04/15/97	
		5,618,045		Kagan et al.	04/08/97	
		5,615,212		Ruszczyk et al.	03/25/97	
		5,572,528		Shuen	11/05/96	
		5,555,540		Radke	09/10/96	
		5,555,425		Zeller et al.	09/10/96	
		5,517,491		Nanni et al.	05/14/96	
		5,502,722		Fulghum	03/26/96	
		5,424,747		Chazelas	06/13/95	
		5,412,654		Perkins	05/02/95	
		5,392,450		Nossen	02/21/95	
		5,317,566		Joshi	05/31/94	
		5,241,542		Natarajan et al.	08/31/93	
		5,233,604		Ahmadi et al.	08/03/93	
		5,231,634		Giles et al.	07/27/93	
		5,068,916		Harrison et al.	11/26/91	
		5,034,961		Adams	07/23/91	
		4,910,521		Mellon	03/20/90	
		4,747,130		Ho	05/24/88	
		4,742,357		Rackley	05/03/88	
		4,736,371		Tejima et al.	04/05/88	
	K.P.		4,617,656		Kobayashi et al.	10/14/86

Attorney Docket No. P2112US/0015
 Serial No. 10/799,090
 Applicant: John M. BELCEA
 Filing Date: 03/12/2004
 Group: 2681
 Sheet 3 of 4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
K.R.		4,494,192		Lew et al.	01/15/85

PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials*	Cite No. ¹	Publication No.	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
K.R.		2001/0053699	McCrary et al.	12/20/01	
K.R.		2002/0013856	Garcia-Luna-Aceves	01/31/02	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₃
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
K.R.		EPO	EP 0513841	A2		11/19/92		Yes
		EPO	EP 0924890	A2		06/23/99		Yes
		EPO	EP 0627827	A2		12/07/94		Yes
		WIPO	WO 9912302			03/11/99		Yes
		WIPO	WO 9839936			09/11/98		Yes
		WIPO	WO 9724005			07/03/97		Yes
		WIPO	WO 9608884			03/21/96		Yes
		WIPO	WO 0235253			05/02/02		Yes
		WIPO	WO 0137483			05/25/01		Yes
		WIPO	WO 0137482			05/25/01		Yes
		WIPO	WO 0137481			05/25/01		Yes
		WIPO	WO 0135567			05/17/01		Yes
		WIPO	WO 0133770			05/10/01		Yes
		WIPO	WO 0110154			02/08/01		Yes
		WIPO	WO 0034932			06/15/00		Yes
		Canada	CA 2132180			03/16/96		Yes
K.R.		France	FR 2683326			07/05/93		No

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
K.R.		WONG, et al., "Soft Handoffs in CDMA Mobile Systems," December 1997, IEEE Personal Communications	
		WONG et al., "A Pattern Recognition System for Handoff Algorithms," July 2000, IEEE Journal on Selected Areas in Communications, Vol. 18, No. 7	
		Andras G. VALKO, "Cellular IP: A New Approach to Internet Host Mobility," January 1999, ACM Computer Communication Review	
		Richard NORTH, Dale BRYAN and Dennis BAKER, "Wireless Networked Radios: Comparison of Military, Commercial and R&D Protocols," February 28-March 3, 1999, 2 nd Annual UCSD Conference on Wireless Communications, San Diego, CA	
K.R.		Benjamin B. PETERSON, Chris KMIETIK, Richard HARTNETT, Patrick M. THOMPSON, Jose MENDOZA and Hung NGUYEN, "Spread Spectrum Indoor Geolocation," August 1998, Navigation: Journal of the Institute of Navigation, Vol. 45, No. 2, Summer 1998	

Attorney Docket No. P2112US/0015
 Serial No. 10/799,090
 Applicant: John M. BELCEA
 Filing Date: 03/12/2004
 Group: 2681
 Sheet 4 of 4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
K.A		Josh BROCH, David A. MALTZ, David B. JOHNSON, Yih-Chun HU and Jorjeta JETCHEVA, "A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols," October 25-30, 1998, Proceedings of the 4 th Annual ACM/IEEE International Conference on Mobile Computing and Networking	
		C. David YOUNG, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol"	
		Chip ELLIOTT and Bob HEILE, "Self-Organizing, Self-Healing Wireless Networks," 2000 IEEE	
		J.J. GARCIA-LUNA-ACEVES and Asimakis TZAMALOUKAS, "Reversing the Collision-Avoidance Handshake in Wireless Networks"	
		J.J. GARCIA-LUNA-ACEVES and Marcelo SPOHN, "Transmission-Efficient Routing in Wireless Networks Using Link-State Information"	
		J.J. GARCIA-LUNA-ACEVES and Ewerton L. MADRUGA, "The Core-Assisted Mesh Protocol," August 1999, IEEE Journal on Selected Areas in Communications, Vol. 17, No. 8	
		Ad KAMERMAN and Guido ABEN, "Net Throughput with IEEE 802.11 Wireless LANs"	
		J. R. McCHESNEY and R.J. SAULITIS, "Optimization of an Adaptive Link Control Protocol for Multimedia Packet Radio Networks"	
		Ram RAMANATHAN and Regina ROSALES-HAIN, "Topology Control of Multihop Wireless Networks Using Transmit Power Adjustment"	
		Ram RAMANATHAN and Martha E. STEENSTRUP, "Hierarchically-Organized, Multihop Mobile Wireless Networks for Quality-of-Service Support"	
		Martha E. STEENSTRUP, "Dynamic Multipoint Virtual Circuits for Multimedia Traffic in Multihop Mobile Wireless Networks"	
		Zhenya TANG and J.J. GARCIA-LUNA-ACEVES, "Collision-Avoidance Transmission Scheduling for Ad-Hoc Networks"	
K.P		George Vardakas and Wendell KISHABA, "QoS Networking With Adaptive Link Control and Tactical Multi-Channel Software Radios"	

Examiner Signature		Date Considered	4/21/05
-----------------------	--	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.